



Docket No.: 45687-00049USPX
P05145US00

EXHIBIT 1

Marked-up Copy Showing Amendments to Claims

1. (Amended) An application level server (701) connected to an IP network (702),
the IP network (702) being connected to a terminal (703) via an access node (706) and via [an]
a resource reservation proxy being connected to the IP network,
the IP network (702) further being connected to an end node (704), the IP network (702) and the
resource reservation proxy (705)[,] using a resource reservation protocol, wherein

[characterised by]

the server (701) [managing] manages a resource reservation for establishing quality of service
between the terminal (703) and the end node (704), and wherein the server (701) [including] includes a
functional entity (707), the functional entity (707) [having] including

means (709) for instructing the terminal (703) to not use its resource reservation protocol if it has
any,

[the functional entity (707) further having] means (708) for identifying necessary parameters[,]
required for performing the resource reservation,

[the functional entity (707) further having] means (710) for changing a signalling message so that
it indicates that the resource reservation signalling applies from the access node and towards the end node,
and

[the functional entity (707) further having] means (711) for requesting, from the proxy (705), a
specific quality of service according to the necessary parameters, between the proxy (705) and the end
node (704) on an IP level.

2. (Amended) Application level server (701) according to [the previous] claim 1, [characterised
in that] wherein the resource reservation protocol is the Resource Reservation Protocol (RSVP) and [thus]
the resource reservation proxy [being] is an RSVP proxy.

3. (Amended) The application level server (701) according [the previous] claim 2, **[characterised by]** wherein the functional entity (707) [having] includes means (709) for instructing the terminal (703) to not use its resource reservation protocol if it has any, in an ACF signalling message of H.225/RAS sent from the server (701) to the terminal (703).

4. (Amended) Application level server (701) according to [the] claim 1, **[characterised in that]** wherein one of the necessary parameters is a quality of service mode.

5. (Amended) Application level server (701) according to [the previous] claim 4, **[characterised in that]** wherein the quality of service mode is identified by the server (701) in a TerminalCapabilitySet message of H.245 from the end node (704) towards the terminal (703).

6. (Amended) Application level server (701) according to claim 1, **[characterised in that]** wherein one of the necessary parameters is quality of service information.

7. (Amended) Application level server (701) according to [the previous] claim 6, **[characterised in that]** wherein the quality of service information is identified by the server (701) in [a] an OpenLogicalChannel message of H.245 sent from the terminal (703) towards the end node (704).

8. (Amended) Application level server (701) according to claim 1, **[characterised in that]** wherein one of the necessary parameters is a port identification of a port to be used by the end node (704) for reception of an incoming media stream to the end node (704).

9. (Amended) Application level server (701) according to [the previous] claim 8, **[characterised in that]** wherein the identification of the port to be used by the end node is identified by the

server (701) in [a] an Open LogicalChannelAck message of H.245 sent from the end node (704) towards the terminal (703).

10. (Amended) Application level server (701) according to claim 1, **[characterised by]** wherein the functional entity (707) [having] has means (710) for changing a signalling message, sent from the terminal (703) towards the end node (704), from indicating that quality of service[s] is not possible to [indicate] indicating that quality of service is possible.

11. (Amended) Application level server (701) according to [the previous] claim 10, **[characterised in that]** wherein the signalling message is a TerminalCapabilitySet of H.245.

12. (Amended) Application level server (701) according to claim 1, **[characterised by]** wherein the functional entity (707) [having] has means (710) for changing a signalling message, sent from the end node (704) towards the terminal (703), from indicating that quality of service is possible to [indicate] indicating that quality of service is not possible.

13. (Amended) Application level server (701) according to [the previous] claim 12, **[characterised in that]** wherein the signalling message is a TerminalCapabilitySet of H.245.

14. (Amended) Application level server (701) according to claim 1, **[characterised in that]** wherein the request of quality of service between the proxy (705) and the end node (704), is sent in a request quality of service message from the server (701) to the proxy (705), the message including the necessary parameters.

15. (Amended) [Communication] A communication system (600) including an application level server (609) [according to any of the claims 1-14] and an IP network (607) connected to the application

level server (609), the application level server (609) routing calls within the communication system, the IP network (607) using a resource reservation protocol, the communication system (600) further including:
a terminal (605) being connected the IP network (607) via an access node (603) and via a resource reservation proxy being connected to the IP network,

[the communication system (600) also including] an end node (608) being connected to the IP network (607),

[the communication system (600) further including] means (612) for establishing an access bearer, with a specific quality of service on [the] a link level, between the terminal (605) and the access node (603); and

[characterised in that

the communication system (600) includes] a resource reservation protocol proxy (602), having means (613) for performing resource reservation to establish the specific quality of service on an IP level, between the access node (603) and the end node (608).

16. (Amended) Communication system according to claim 15, **[characterised in that]** wherein the resource reservation protocol is the Resource Reservation Protocol **[(RSVP)]** (RSVP) and the proxy (602) is an RSVP proxy.

17. (Amended) Communication system according to claim 16, **[characterised in that]** wherein the resource reservation is initiated by the proxy, by a sent Path signalling message of RSVP including the necessary parameters, from the access node (603) towards the end node (608).

18. (Amended) Communication system according to [any of the previous] claim[s] 15, **[characterised in that]** wherein the access node is a radio access node and [that] the terminal 605 is connected to the radio access node via a radio link.

19. (Amended) Communication system according to [any of the] claim[s] 16[-18], **[characterised in that]** wherein the resource reservation protocol proxy (602) is co-located with the access node (603).

20. (Amended) Method for resource reservation to establish end-to-end quality of service between a terminal and an end node within a communication system, the communication system including an IP network using a resource reservation protocol, the communication system further including the terminal being connected to an access node, the access node being connected to a resource reservation protocol proxy, the proxy being connected to the IP network, the IP network being connected to an application level server that routes calls and that manages the resource reservation, the method including the steps of:

- [*indicating*] indicating (501) that the resource reservation signalling on IP level applies between the proxy and the end node;
- [*identifying*] identifying (502) necessary parameters for performing the resource reservation;
- [*performing*] performing (503) the resource reservation, with quality of service on the IP level, between the access node and the end node, by means of the resource reservation protocol proxy[.], and
- [*establishing*] establishing (504) an access bearer with a quality of service on [the] a link level, between the terminal and the access node;

21. (Amended) Method according to [the previous] claim 20 wherein the resource reservation protocol used is the Resource Reservation Protocol (RSVP) and the resource reservation protocol proxy is an RSVP proxy.

22. (Amended) Method according to [any of the] claim[s] 20[-21], wherein the step of indicating (501) that the resource reservation signalling applies between the proxy and the end node is performed by the server, by changing a signalling message, sent from the terminal towards the end node, from indicating that quality of service not is capable to [indicate] indicating that quality of service is capable.

23. (Amended) Method according to [the previous] claim 22, wherein said signalling message is a TerminalCapabilitySet of H.245.

24. (Amended) Method according to [any of the] claim[s] 20[-23], wherein the step of indicating (501) that the resource reservation signalling applies between the proxy and the end node is performed by the server, by changing a signalling message, sent from the end node towards the terminal, from indicating that quality of service is capable to [indicate] indicating that quality of service is not capable.

25. (Amended) Method according to [the previous] claim 24, wherein said signalling message is a TerminalCapabilitySet of H.245.

26. (Amended) Method according to [any of the] claim[s] 20[-25], wherein [in] one of the necessary parameters is a quality of service mode.

27. (Amended) Method according to [the previous] claim 26, wherein the quality of service mode is identified (502) by the server in a TerminalCapabilitySet message of H.245 sent from the end node towards the terminal.

28. (Amended) Method according to [any of the] claim[s] 20[-27], wherein [in] one of the necessary parameters is quality of service information.

29. (Amended) Method according to [the previous] claim 28, wherein the quality of service information is identified (502) by the server in an OpenLogicalChannel message of H.245 sent from the terminal towards the end node.

30. (Amended) Method according to [any of the] claim[s] 20[-29], wherein [in] one of the necessary parameters is a port identification of a port to be used by the end node for reception of [the] a media stream.

31. (Amended) Method according to [the previous] claim 30, wherein said port identification is identified (502) by the server in an Open LogicalChannelAck message of H.245 sent from the end node towards the terminal.

32. (Amended) Method according to [any of the] claim[s] 20[-31], comprising the further step to be taken by the server; requesting from the proxy, quality of service between the access node and the terminal according to the necessary parameters.

33. (Amended) Method according to [the previous] claim 32, wherein said request is sent in a request quality of service message, including the necessary parameters.

34. (Amended) Method according to [any of the] claim[s] 20[-33], wherein the step of performing (503) the resource reservation, is performed by means of the proxy initiating the resource reservation, by [a] sending a Path signalling message of RSVP from the proxy towards the end node, the message including the necessary parameters.

35. (Amended) Method according to [any of the] claim[s] 20[-34], wherein the step of performing (503) the resource reservation, is performed by[,] the resource reservation signalling messages,

sent from the end node routed to go via the proxy towards the terminal are stopped by the proxy and not forwarded to the terminal.

36. (Amended) Method according to [the previous] claim 35, wherein the step of performing (503) the resource reservation, is performed by said resource reservation signalling messages, sent from the end node and stopped by the proxy are, when by the protocol so required, responded to by the proxy instead of the terminal, in a resource reservation signalling message sent to the end node.

37. (Amended) Method according to [any of the] claim[s] 20[-36], wherein the access node is a radio access node and that the terminal is connected to the radio access node via a radio link.

38. (Amended) Method according to [the previous] claim 37, wherein the RSVP proxy is co-located with the radio access node.